

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

1-13. (Canceled)

14. (Currently Amended) An image pickup device attached to a base board, comprising:

an image pickup element attached to the base board and including a photoelectrically converting section in which pickup elements are arranged, a peripheral top surface formed around the photoelectrically converting section and a side surface adjoining the peripheral top surface;

an optical member including a lens section to form an image of an object on the photoelectrically converting section of the image pickup element, a leg section to support the lens section and a contact surface provided at a lower end of the leg section; and

a lens frame having a slidable contact surface at a lower end thereof and an inner space in which the optical member is accommodated so as to come in contact with an inner wall of the lens frame;

wherein the optical member is mounted on the image pickup element such that a position between the lens section and the photoelectrically converting section of the image pickup element in an optical axis direction is determined by bringing the contact

surface of the optical member in direct contact with the peripheral top surface or with a top surface member when the top surface member is provided on the peripheral surface, and

wherein the lens frame is mounted on the base board such that the position between the lens section and the photoelectrically converting section of the image pickup element in a direction perpendicular to the optical axis is determined by bringing the slidable contact surface of the lens frame in direct contact with only a top surface of the base board and by positioning the slidable contact of the lens frame on the base board.

15. (Previously Presented) The image pickup device of claim 14, wherein a terminal to electrically connect the image pickup element with the base board is formed on the peripheral surface and the contact portions are located between the terminal and the photoelectrically converting section.

16. (Original) The image pickup device of claim 14, wherein the photoelectrically converting section is located at a central portion of the image pickup element.

17. (Original) The image pickup device of claim 14, wherein an image processing circuit is provided in an inner portion of the image pickup element at an inside of the peripheral surface.

18. (Original) The image pickup device of claim 14, further comprising an elastic member to press the lens section in the optical axis direction.

19. (Previously Presented) The image pickup device of claim 18, further comprising

a cover member provided at the object side of the lens section to press the lens section with the aide of the elastic member, wherein the cover member includes a part capable of transmitting light.

20. (Previously Presented) The image pickup device of claim 19, wherein a part of the cover member is made of a material having an infrared ray absorbing characteristic.

21. (Original) The image pickup device of claim 14, wherein the optical member is adapted to be inserted into the lens frame from the object side.

22. (Previously Presented) The image pickup device of claim 14, further comprising a first diaphragm to regulate a F-number of the lens section and a second diaphragm located at the object side of the first diaphragm to regulate a peripheral light flux.

23. (Previously Presented) The image pickup device of claim 14, wherein the lens section comprises a first diaphragm to regulate a F-number of the lens section and is a positive single lens having a surface with a curvature stronger at an image side.

24. (Original) The image pickup device of claim 14, wherein the lens section comprises at least two lenses.

25. (Original) The image pickup device of claim 24, wherein the lens section comprises a positive lens and a negative lens.

26. (Previously Presented) The image pickup device of claim 24, wherein in the lens section, a lens located closest to the image side is a positive lens and a first diaphragm to regulate a F-number is arranged at the object side of the positive lens.

27. (Previously Presented) The image pickup device of claim 24, wherein the position of each of the at least two lenses in a direction perpendicular to the optical axis is set by engaging surfaces of the at least two lenses parallel to the optical axis in the lens section.

28. (Currently Amended) An image pickup device, comprising:
a base board;

an image pickup element provided on the base board and including a photoelectrically converting section, a peripheral top surface formed around the photoelectrically converting section and a side surface adjoining the peripheral top surface;

an optical member including a lens section to form an image of an object on the photoelectrically converting section of the image pickup element, a leg section to support the lens section and a contact surface provided at a lower end of the leg section;

an elastic member to press the optical member toward the image pickup element with an elastic force; and

a lens frame having a slidable contact surface at a lower end thereof and an inner space in which the optical member is accommodated so as to come in contact with an inner wall of the lens frame;

wherein the optical member is mounted on the image pickup element such that a position between the lens section and the photoelectrically converting section of the image pickup element in an optical axis direction is determined by bringing the contact surface of the optical member in direct contact with the peripheral top surface or with a top surface member when the top surface member is provided on the peripheral top surface, and

wherein the lens frame is mounted on the base board such that the position between the lens section and the photoelectrically converting section of the image pickup element in a direction perpendicular to the optical axis is determined by bringing

the slidable contact surface of the lens frame in direct contact with only a top surface of the base board and by positioning the slidable contact of the lens frame on the base board.

29. (Original) The image pickup device of claim 28, wherein the leg section is brought in contact with a surface of a part of the image pickup element with a weight of 5 g to 500 g on a condition that the image pickup element is positioned so as to face the lens section.

30. (Original) The image pickup device of claim 28, further comprising:
a lens frame fixed to the base board; and
a cover member attached to the lens frame at the object side positioned from the lens section and to press the elastic member, wherein the cover member includes a part capable of transmitting light.

31. (Original) The image pickup device of claim 28, wherein the elastic member is constructed as a separate body from the optical member and the cover member.

32. (Original) The image pickup device of claim 28, wherein the elastic member is a coil spring.

33. (Original) The image pickup device of claim 28, wherein the elastic member is a sheet-shaped member having a opening at a central portion thereof.

34. (Original) The image pickup device of claim 33, wherein the sheet-shaped member is made of a material having a light shielding capability and additionally has a function of a diaphragm to regulate the F-number of the lens section.

35 (Original) The image pickup device of claim 30, wherein the elastic member is made in a single body with the cover member.

36. (Original) The image pickup device of claim 30, wherein the elastic member is made in a single body with the optical member.

37. (Currently Amended) An image pickup device, comprising:
a base board;
an image pickup element provided on the base board and including a photoelectrically converting section, a peripheral top surface formed around the photoelectrically converting section and a side surface adjoining the peripheral top surface;

an optical member including a lens section to form an image of an object on the photoelectrically converting section of the image pickup element, a leg section to

support the lens section and a contact surface provided at a lower end of the leg section; and

a lens frame having an elastic member to press the optical member toward the image pickup element with an elastic force, a slidable contact surface at a lower end thereof and an inner space in which the optical member is accommodated so as to come in contact with an inner wall of the lens frame;

wherein the optical member is mounted on the image pickup element such that a position between the lens section and the photoelectrically converting section of the image pickup element in an optical axis direction is determined by bringing the contact surface of the optical member in direct contact with the peripheral top surface or with a top surface member when the top surface member is provided on the peripheral top surface, and

wherein the lens frame is mounted on the base board such that the position between the lens section and the photoelectrically converting section of the image pickup element in a direction perpendicular to the optical axis is determined by bringing the slidable contact surface of the lens frame in direct contact with only a top surface of the base board and by positioning the slidable contact of the lens frame on the base board.

38. (Original) The image pickup device of claim 37, wherein the leg section is brought in contact with a surface of a part of the image pickup element with a weight of

5 g to 500 g on a condition that the image pickup element is positioned so as to face the lens section.

39. (New) The image pickup device of claim 1, wherein the lens frame is fixed to the base board with adhesive.